



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
087969,637	11/13/97	PREMI	R 2723

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LM01/0222

EXAMINER

LEWIS, D

ART UNIT	PAPER NUMBER
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2775

DATE MAILED: 02/22/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
08/969,637

Applicant(s)
Premi et al.

Examiner
David L Lewis

Group Art Unit
2775



☐ Responsive to communication(s) filed on _____.

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 1-18 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 1-18 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been
☐ received.

☐ received in Application No. (Series Code/Serial Number) _____.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____.

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Title: System and Methods for 2-Tap / 3-Tap Flicker Filtering

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
2. The following title is suggested: "System and Method for both 2-tap and 3-tap flicker filtering of non-interlaced computer graphics lines to interlaced lines for television display"

Claim Rejections - 35 USC § 112

3. Claims 16-18 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The word simultaneous as found in claims 16-18 is being interpreted as meaning "events being carried out at exactly the same time". As a result any two events happening in sequence are As a a consequence of the other can not be considered simultaneous. Claims 16-18 cite methods comprising simultaneous events that are not supported in the specification. For example in claim 18 is said to simultaneously receive two different lines, combine two different lines to form a third line, and write the third line to a buffer that one of the two combined lines was read from. These events cannot

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happen simultaneously because each event is a consequence of the preceding event, and there must occur in sequence. Claims 16 and 17 have similar problems.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
(a) a patent may not be obtained though the invention is not identically disclosed or described As a set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter As a a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
5. **Claims 1-15 are rejected under 35 U.S.C. 103(a) As a being unpatentable over Donovan (5781241).**
6. **As a in claim 1, Donovan teaches of a device for flicker filtering a plurality on non-interlaced lines containing computer graphics data to form a plurality of interlaced lines, the device programmable to combine either two or three non-interlaced lines to form each interlaced line, column 6 lines 6-33, the device comprising: a data packer and filter circuit, column 6 lines 58-60, wherein said scaling feature implies the existence of said data packer, and line buffer memory, figure 14 item LM1, column 1 line 9. However Donovan does not explicitly teach of said data unpacker. Utilizing**

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scalers or compressors for the purpose of reducing the requirements of line buffer memory are well known. Donovan specifically teaches of the desire to reduce the memory requirements, **column 1 lines 7-13**. Applicant appears to differ As a claimed from Donovan in that the applicant unscales data As a it is retrieved from the temporary line buffer. Donovan implies said scaling on **column 6 line 59** however he is silent As a to said unscaling or data unpacking. Said data unpacking would be obvious however As a well known in the art in addition to the fact that Donovan provides feedback from the line buffer for the purpose of combining additional non-interlaced lines to form each interlaced line. Said feedback would have to be in a format to be properly added to the incoming data. **Therefore it would have been obvious** to the skilled artisan at the time of the invention to include to the invention a data unpacker for the purpose of facilitating the adding of the scaled line buffer data to the incoming data, As a suggested and taught by Donovan, **As a found in claim 1**.

7. **Further As a found in claim 12**, Donovan teaches of receiving the non-interlaced line in an external format and said internal format is arrived at by scaling the data to store in the line memory, and the invention requires no more than two lines of memory, and the filtering is achieved by the weighted sum of forming the interlaced line. **As a in claim 15, Donovan teaches** of said method wherein said first and second non-interlaced line combine, column 6 lines 5-33. **Depended claims 2-11, 13, and 14** would have also been obvious to the skilled artisan at the time of the invention in view of the teachings of Donovan, and can be found or suggested in the specification, between columns 1-13.

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Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
Bishop (5455628) As a shown in figures 4 or 5 Bishop teaches of the well known 2 or 3 simultaneously filtered non-interlaced data. Bhatt (5610661). Kwok et al. (5387940).
9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is **(703) 306-3026**. The examiner can normally be reached on MT and THF from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Saras, can be reached on (703) 305-9720. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

Serial Number: 08/969,637

Art Unit: 2775

Applicant: Premi et al.

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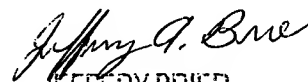
Title: System and Methods for 2-Tap / 3-Tap Flicker Filtering

(703) 308-6606 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Or hand-delivered to:

A handwritten signature, possibly reading 'OK', is written over a horizontal line.

Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).


JEFFERY BRIER
PRIMARY EXAMINER

Examiner: David L. Lewis

February 14, 1999